

PATENT ABSTRACTS OF JAPAN

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A61K 31/785
A61P 31/04
C07C269/02
C08F 20/34
C09K 3/16

(21)Application number : 2000-263216 (71)Applicant : TOKUSHIMA PREFECTURE
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KAIHATSU KENKYU KIKO

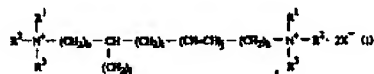
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FUKUI TOMOYA
MAEDA TAKUYA
KENKI JUNICHI

(54) QUATERNARY AMMONIUM SALT COMPOUND, METHOD FOR PRODUCING THE SAME AND APPLICATION THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a compound having antimicrobial effect and antistaticity, particularly a compound capable of imparting polymeric materials with surface properties such as antimicrobial effect and antistaticity.

SOLUTION: This compound is a quaternary ammonium



salt compound of the general formula (1) [wherein, R1 and R2 are each a 1-3C alkyl; R3 is a (substituted) 6-18C alkyl; R4, R5 and R6 are each H or a 1-3C alkyl; X is an organic or inorganic acid residue; h, i and k are each an integer of 0-17; j is 0 or 1; h, i, j and k total ≤ 17 ; l is an integer of 0-18; and m is 0 or 1]. The 2nd objective method for producing the compound and the other objective application of the compound are provided respectively.

(19) 日本国特許(JP)

再 公 表 特 許(A1)

(11) 国際公開番号
WO2002/080447

発行日 平成16年7月22日 (2004.7.22)

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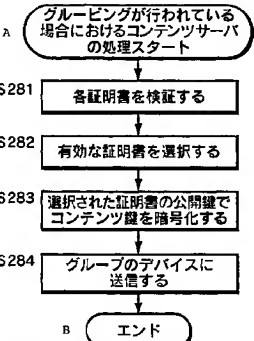
(51) Int.Cl. ⁷	F I			
HO 4 L 9/08	HO 4 L	9/00	GO 1 C	
HO 4 L 9/32	HO 4 L	9/00	GO 1 F	
	HO 4 L	9/00	GO 1 F	

審査請求 未請求 予備審査請求 未請求 (全 43 頁)

出願番号	特願2002-577332 (P2002-577332)	(71) 出願人	00002185
(21) 国際出願番号	PCT/JP2002/002957		ソニー株式会社
(22) 国際出願日	平成14年3月27日 (2002.3.27)		東京都品川区北品川6丁目7番35号
(31) 優先権主張番号	特願2001-94808 (P2001-94808)	(74) 代理人	100082131
(32) 優先日	平成13年3月29日 (2001.3.29)		弁理士 稲本 義雄
(33) 優先権主張国	日本国 (JP)	(72) 発明者	石黒 隆二
(81) 指定国	EP (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), CN, JP, KR, US		東京都品川区北品川6丁目7番35号 ソニー株式会社内

(54) 【発明の名称】 情報処理装置

(57)



A...CONTENT SERVER START WHEN
GROUPING IS PERFORMED
S281...VERIFY CERTIFICATE
S282...SELECT VALID CERTIFICATE
S283...ENCRYPT CONTENT KEY USING
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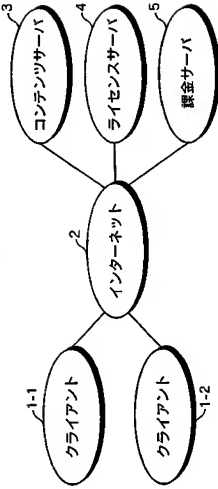
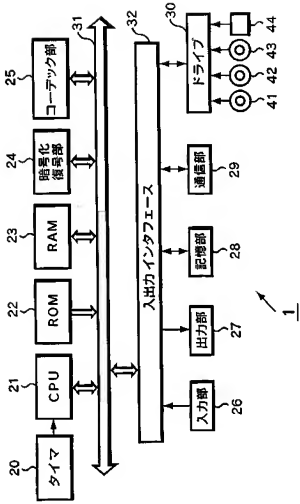


図 2



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図 3

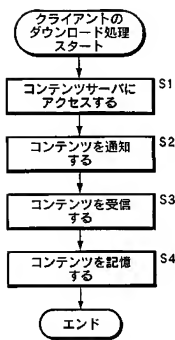


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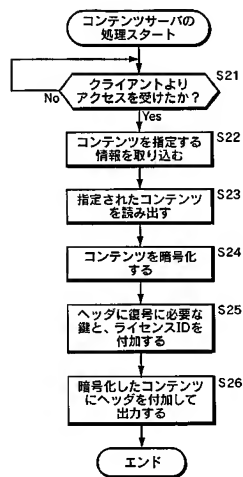


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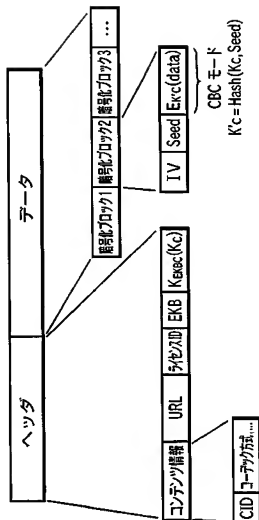


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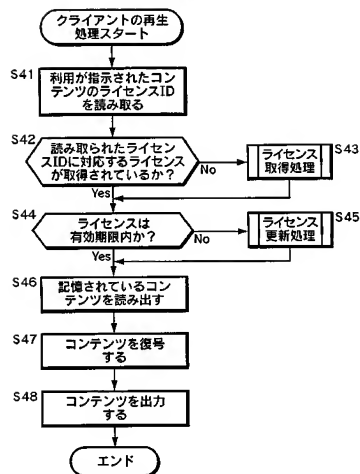


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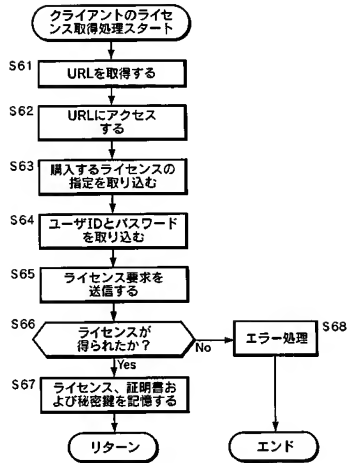
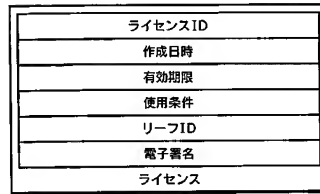


図 8



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図 9

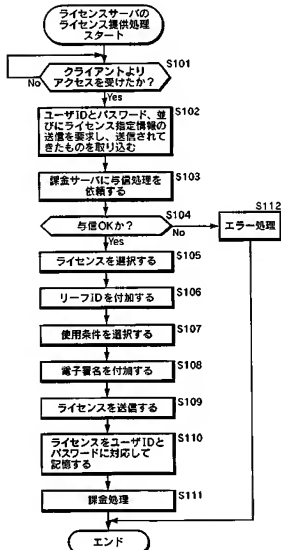


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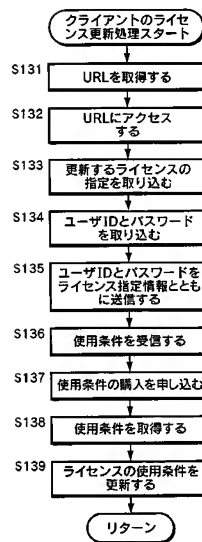


図15A

バージョン (Version) t	
インデックス	暗号化キー
0	$Enc(K(t)0, K(t)R)$
00	$Enc(K(t)00, K(t)0)$
000	$Enc(K000, K(t)00)$
001	$Enc(K(t)001, K(t)00)$
0010	$Enc(K0010, K(t)001)$

図15B

バージョン(Version) t	
インデックス	暗号化キー
000	Enc(K000, K(t)00)
001	Enc(K(t)001, K(t)00)
0010	Enc(K0010, K(t)001)

图 17

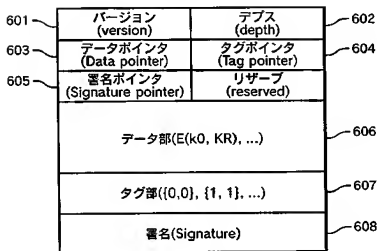


图 16

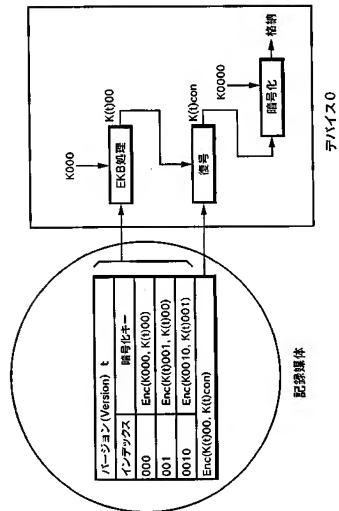


图18

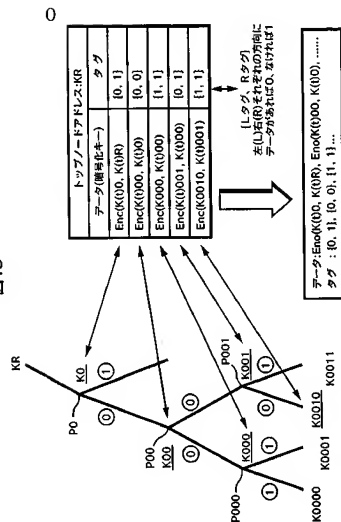


図 24

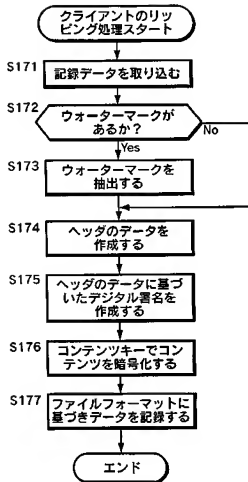


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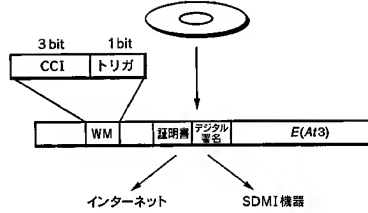


図 26

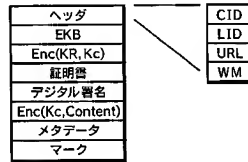
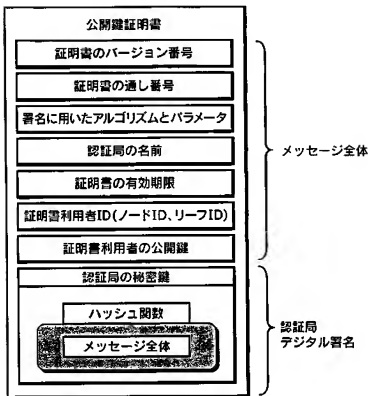
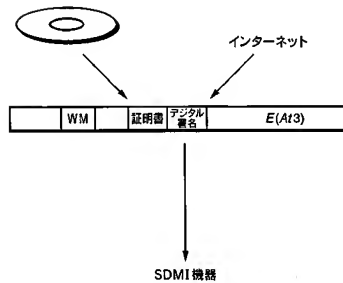


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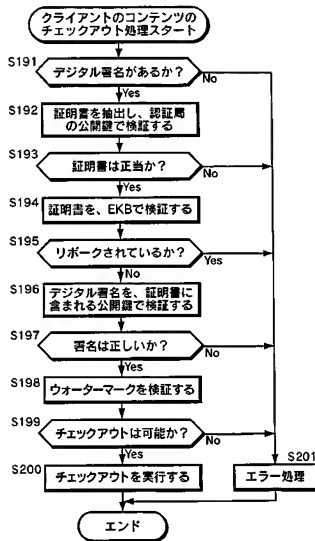
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図 28



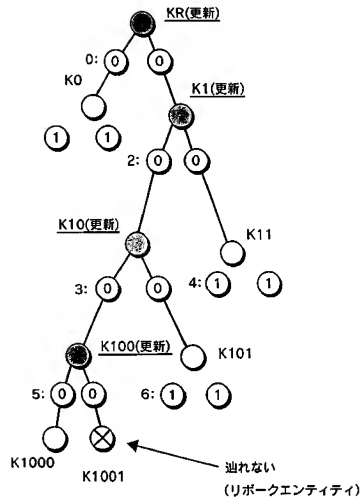
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図 29



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図 30



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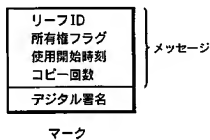
図 31

データ (暗号化キー)	$Enc(K(0), K(t)R)$, $Enc(K(t)1, K(t)R)$ $Enc(K(t)10, K(t)1)$, $Enc(K11, K(t)1)$ $Enc(K(t)100, K(t)10)$, $Enc(K101, K(t)10)$ $Enc(K1000, K(t)100)$
タグ	0: {0, 0}, 1: {1, 1}, 2: {0, 0}, 3: {0, 0} 4: {1, 1}, 5: {0, 1}, 6: {1, 1}

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図 32



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図 33

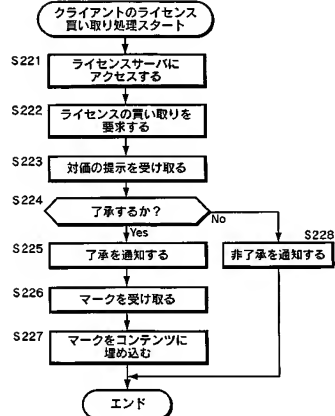


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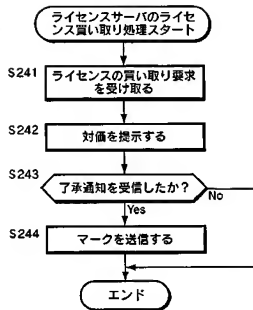


図 35

Mark = { LeafID, Own, Sigs(LeafID, Own) }

図 36

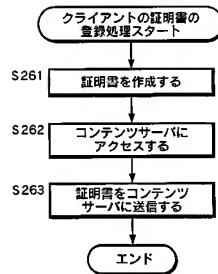


図 37

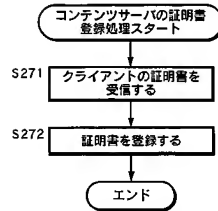


図 40

$Enc(K_{P11}, K_C), Enc(K_{P12}, K_C), Enc(K_{P13}, K_C)$

図 41

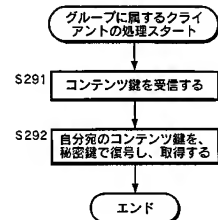


図 38

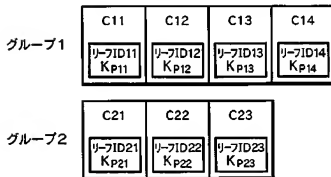


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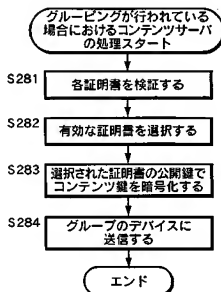


図 42

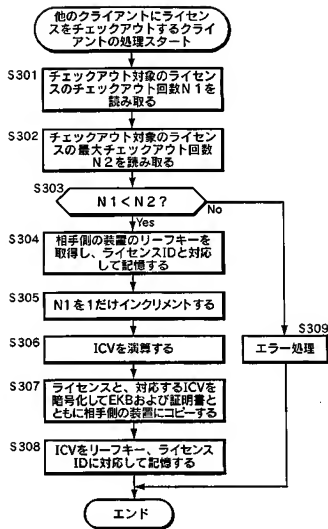


図 43

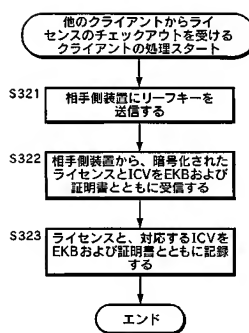


図 44

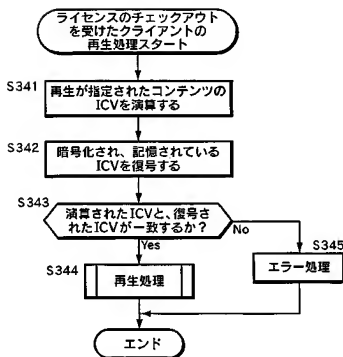


図 45

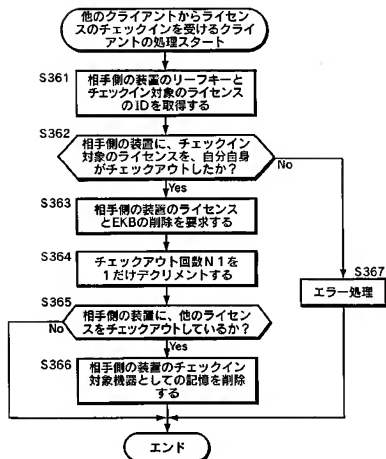


图 46

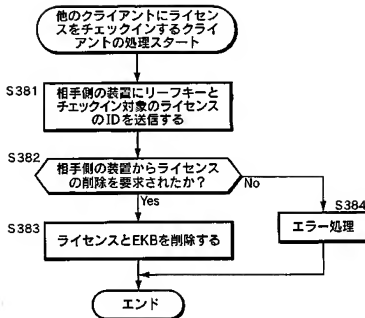


图 47

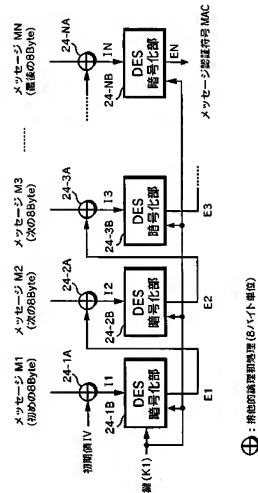
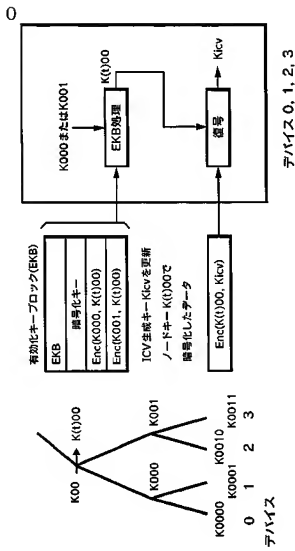
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图 49

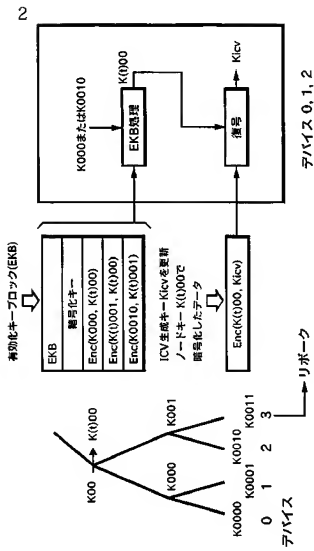


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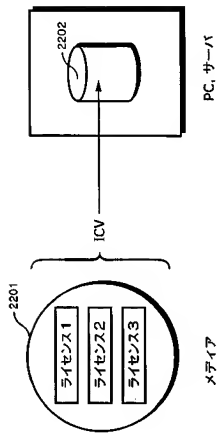


図 50A

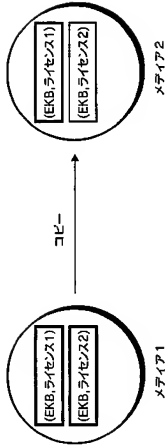
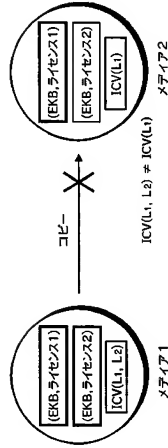


図 50B



INTERNATIONAL SEARCH REPORT		International application No. ECT/JP02/02957		
A. CLASSIFICATION OF SUBJECT MATTER Int.-Cl. ¹ H04L9/08, G06F17/60				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Main document classification (classification system followed by classification symbol) Int.-Cl. ¹ H04L9/08, G06F17/60				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinkan Koho 1992-1998 Toroku Jitsuyo Shinkan Koho 1994-2002 Kokuai Jitsuyo Shinkan Koho 1971-2002 Jitsuyo Shinkan Toroku Koho 1996-2002				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claims No.		
X	JP 11-346210 A (Nippon Telegraph and Telephone Corp.), 14 December, 1999 (14.12.99), Pat. Nos. [0001] to [0062], (Family: none)	1-6		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.				
<table border="0"> <tr> <td style="vertical-align: top;"> * Special categories of cited documents: "A" documents defining the general state of the art which is not considered to be of particular relevance "B" earlier document has published on or after the international filing date "L" documents which may show disclosure on priority claim(s) or which is cited to establish the publication date of another citation or other special issue (as specified) "O" documents referring to an oral disclosure, use, exhibition or other means "P" documents published prior to the international filing date but later than the priority date claimed </td> <td style="vertical-align: top;"> "I" later document published after the international filing date or priority date and not in conflict with the application has cited to understand the principle or theory underlying the invention (document of particular relevance); the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other cited documents, such combination being closest to a person skilled in the art "A" document member of the same patent family </td> </tr> </table>			* Special categories of cited documents: "A" documents defining the general state of the art which is not considered to be of particular relevance "B" earlier document has published on or after the international filing date "L" documents which may show disclosure on priority claim(s) or which is cited to establish the publication date of another citation or other special issue (as specified) "O" documents referring to an oral disclosure, use, exhibition or other means "P" documents published prior to the international filing date but later than the priority date claimed	"I" later document published after the international filing date or priority date and not in conflict with the application has cited to understand the principle or theory underlying the invention (document of particular relevance); the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other cited documents, such combination being closest to a person skilled in the art "A" document member of the same patent family
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Date of the actual completion of the international search 04 July, 2002 (04.07.02)		Date of mailing of the international search report 23 July, 2002 (23.07.02)		
Name and mailing address of the ISA Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

国際調査報告		国際出版番号 PCT/JPO2/02957
A. 発明の属する分野の分類 (国際特許分類 (IPC))		
Int. Cl. ⁷ H04L9/08, G06F17/60		
B. 調査を行った分野		
調査を行った最小限資料 (国際特許分類 (IPC))		
Int. Cl. ⁷ H04L9/08, G06F17/60		
最小限資料以外の資料で調査を行った分野に含まれるもの		
日本国実用新案公報 1922-1996年		
日本国特許公報 1971-2002年		
日本国特許公報 1994-2002年		
日本国実用新案公報 1996-2002年		
国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)		
C. 関連すると認められる文献		
引用文献の カテゴリ *	引用文献名 及び一語の語所が簡潔なときは、その簡潔する態様の表示	簡潔する 請求の範囲の番号
X	JP 11-346210 A (日本電信電話株式会社) 1999.12.14, 第1-62段落 (77行なし)	I-6
<input type="checkbox"/> C欄の続きにも文献が列挙されている。 <input type="checkbox"/> パテントファミリーに関する別紙を参照。		
* 引用文献のカテゴリ 「A」特に関連のある文献ではなく、一般的技術水準を示すもの 「B」国際公開日録の出願または特許であるが、国際公開日録に公表されたもの 「L」優先権主張に依拠する文献又は他の文献の発行日または他の特許な理由を確立するために引用する文献 (理由を付す) 「O」口頭による開示、使用、展示等に言及する文献 「P」国際公開日録で、かつ優先権の主張の基礎となる出版物の日に公表された文献 「T」国際公開日又は優先権主張後に公表された文献であって、出版と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの 「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの 「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの 「Z」同一パテントファミリー文献		
国際調査を完了した日	04.07.02	国際調査報告の発注日 23.07.02
国際調査機関の名称及び住所 日本国特許庁 (ISA/JJP) 郵便番号 100-8915 東京都千代田区府三丁目4番3号	特許庁長官 (機関のある職員) 中野 彰正 電話番号 03-3581-1101 内線 3597	5M 9364

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